

# Joel Voldman

## List of Publications by Year in descending order

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34  
papers

3,347  
citations

394421

19  
h-index

414414

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

4324  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammation resolution circuits are uncoupled in acute sepsis and correlate with clinical severity. JCI Insight, 2021, 6, .	5.0	4
2	A sample-to-answer electrochemical biosensor system for biomarker detection. Lab on A Chip, 2021, 22, 100-107.	6.0	10
3	An integrated model for bead-based immunoassays. Biosensors and Bioelectronics, 2020, 154, 112070.	10.1	6
4	Leukocyte function assessed via serial microlitre sampling of peripheral blood from sepsis patients correlates with disease severity. Nature Biomedical Engineering, 2019, 3, 961-973.	22.5	39
5	Caring for cells in microsystems: principles and practices of cell-safe device design and operation. Lab on A Chip, 2018, 18, 3333-3352.	6.0	17
6	Designable 3D Microshapes Fabricated at the Intersection of Structured Flow and Optical Fields. Small, 2018, 14, e1803585.	10.0	20
7	Microfluidics in structured multimaterial fibers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10830-E10838.	7.1	26
8	Multi-frequency dielectrophoretic characterization of single cells. Microsystems and Nanoengineering, 2018, 4, 23.	7.0	15
9	Sequentially multiplexed amperometry for electrochemical biosensors. Biosensors and Bioelectronics, 2018, 117, 522-529.	10.1	22
10	Multiplexed Cell-Based Sensors for Assessing the Impact of Engineered Systems and Methods on Cell Health. Analytical Chemistry, 2017, 89, 4663-4670.	6.5	16
11	Iso-acoustic focusing of cells for size-insensitive acousto-mechanical phenotyping. Nature Communications, 2016, 7, 11556.	12.8	181
12	Microfluidic neurite guidance to study structure-function relationships in topologically-complex population-based neural networks. Scientific Reports, 2016, 6, 28384.	3.3	32
13	Longitudinal multiparameter assay of lymphocyte interactions from onset by microfluidic cell pairing and culture. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3599-608.	7.1	78
14	Spatially and temporally controlled immune cell interactions using microscale tools. Current Opinion in Immunology, 2015, 35, 23-29.	5.5	12
15	A cell-based sensor of fluid shear stress for microfluidics. Lab on A Chip, 2015, 15, 1563-1573.	6.0	36
16	Profiling lymphocyte interactions at the single-cell level by microfluidic cell pairing. Nature Communications, 2015, 6, 5940.	12.8	148
17	Cell-Based Biosensor to Report DNA Damage in Micro- and Nanosystems. Analytical Chemistry, 2014, 86, 7598-7605.	6.5	16
18	Imageâ€Predicated Sorting of Adherent Cells Using Photopatterned Hydrogels. Advanced Healthcare Materials, 2013, 2, 552-556.	7.6	6

#	ARTICLE	IF	CITATIONS
19	Cellular bias on the microscale: probing the effects of digital microfluidic actuation on mammalian cell health, fitness and phenotype. <i>Integrative Biology</i> (United Kingdom), 2013, 5, 1014.	1.3	29
20	Attenuation of extrinsic signaling reveals the importance of matrix remodeling on maintenance of embryonic stem cell self-renewal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 835-840.	7.1	83
21	Cell-based sensors for quantifying the physiological impact of microsystems. <i>Integrative Biology</i> (United Kingdom), 2011, 3, 48-56.	1.3	15
22	Fluid shear stress primes mouse embryonic stem cells for differentiation in a self-renewing environment via heparan sulfate proteoglycans transduction. <i>FASEB Journal</i> , 2011, 25, 1208-1217.	0.5	113
23	Advancing stem cell research with microtechnologies: opportunities and challenges. <i>Integrative Biology</i> (United Kingdom), 2010, 2, 305.	1.3	36
24	Going my way?. <i>Nature Physics</i> , 2009, 5, 536-537.	16.7	6
25	Interfacing devices with cells. , 2009, , .		0
26	An active bubble trap and debubbler for microfluidic systems. <i>Lab on A Chip</i> , 2008, 8, 1733.	6.0	92
27	A practical guide to microfluidic perfusion culture of adherent mammalian cells. <i>Lab on A Chip</i> , 2007, 7, 681.	6.0	409
28	Micro-scale Engineering for Cell Biology. <i>Journal of Visualized Experiments</i> , 2007, , 317.	0.3	0
29	Microfluidic arrays for logarithmically perfused embryonic stem cell culture. <i>Lab on A Chip</i> , 2006, 6, 394.	6.0	262
30	ELECTRICAL FORCES FOR MICROSCALE CELL MANIPULATION. <i>Annual Review of Biomedical Engineering</i> , 2006, 8, 425-454.	12.3	790
31	Engineered systems for the physical manipulation of single cells. <i>Current Opinion in Biotechnology</i> , 2006, 17, 532-537.	6.6	34
32	A Scalable Addressable Positive-Dielectrophoretic Cell-Sorting Array. <i>Analytical Chemistry</i> , 2005, 77, 7976-7983.	6.5	169
33	A Microfabrication-Based Dynamic Array Cytometer. <i>Analytical Chemistry</i> , 2002, 74, 3984-3990.	6.5	314
34	Microfabrication in Biology and Medicine. <i>Annual Review of Biomedical Engineering</i> , 1999, 1, 401-425.	12.3	311